

WHAT IS CLAIMED IS:

- 1 1. A method of drying printed media using a electromagnetic signal,
2 comprising:
3 receiving the printed media through an input opening;
4 drying the printed media using an electric field formed within a resonant cavity; and
5 passing the printed media through an output opening, wherein the input and output
6 openings substantially attenuate the electric field.
- 1 2. The method of claim 1, wherein receiving the printed media comprises
2 providing the input opening along a longitudinal axis of the resonant cavity.
- 1 3. The method of claim 2, wherein the input opening is provided as a
2 waveguide.
- 1 4. The method of claim 3, wherein stubs are provided within the waveguide to
2 attenuate the electric field.
- 1 5. The method of claim 4, wherein the stubs have critical dimensions
2 substantially equal to a quarter of a wavelength of the electric field.
- 1 6. The method of claim 1, wherein the electric field is substantially flat within a
2 range.
- 1 7. The method of claim 1, wherein the electric field is formed by a transmission
2 of the electric field into the resonant cavity.

1 8. The method of claim 1, wherein drying the printed media further includes
2 providing forced air at a first end of the resonant cavity.

1 9. The method of claim 8, wherein the forced air is egressed through a second
2 end of the resonant cavity.

1 10. The method of claim 9, wherein an attenuating structure is provided at the
2 second end of the resonant cavity to substantially attenuate the electric field.

1 11. The method of claim 1, wherein passing the printed media comprises
2 providing the output opening along a longitudinal axis of the resonant cavity.

1 12. The method of claim 11, wherein the output opening is provided as a
2 waveguide.

1 13. The method of claim 12, wherein stubs are provided within the waveguide to
2 attenuate the electric field.

1 14. The method of claim 12, wherein the stubs have critical dimensions
2 substantially equal to a quarter of a wavelength of the electric field.

1 15. The method of claim 1, further comprising providing pinch rollers at the
2 output opening.

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1 16. An article of manufacture comprising a program storage medium readable by
2 a computer, the medium tangibly embodying one or more programs of instructions
3 executable by the computer to perform a method for drying printed media, the method
4 comprising:

5 receiving the printed media through an input waveguide;
6 drying the printed media using an electric field formed within a resonant cavity; and
7 passing the printed media through an output waveguide, wherein the input and
8 output waveguides substantially attenuate the electromagnetic signal.

1 17. A printed media drying device, comprising:
2 means for receiving the printed media;
3 means for drying the printed media using an electric field formed within a resonant
4 cavity; and
5 means for providing the printed media from the resonant cavity, wherein the means
6 for receiving the printed media and means for providing the printed media substantially
7 attenuate the electromagnetic signal.